

MATERIAL SAFETY DATA SHEET

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING

Telephone numbers:	(517) 546-4520
Manufacturer/Supplier:	CHEM-TREND LP P.O. BOX 860 HOWELL, MI 48844-0860
Product Name:	MR-515 Comb Can

2. HAZARDS IDENTIFICATION

Physical State:	Aerosol
Appearance:	Aerosol
Color:	Colourless
Odor:	Characteristic
Emergency Overview:	DANGER: FLAMMABLE!
Principle routes of exposure:	Skin, eyes, respiratory tract, gastrointestinal tract

See Toxicological Information (section 11)

3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient	CAS Registry Number	Weight %
Light aliphatic naphtha	-	70 - 80%
Propane/isobutane/N-butane	68476-86-8	20 - 30%
Release blend	Proprietary	5 - 10%

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4. FIRST AID MEASURES

Skin contact:	Wash off immediately with soap and plenty of water, removing all contaminated clothes and shoes
Eye contact:	Rinse thoroughly with plenty of water for at least 15 minutes and contact a physician
Inhalation:	Inhalation of high vapour concentrations may cause symptoms like headache, dizziness, tiredness, nausea and vomiting. Move to fresh air. If symptoms persist, call a physician.
Ingestion:	Do not induce vomiting: contains petroleum distillates and/or aromatic solvents. Aspiration may cause pulmonary oedema and pneumonitis. Contact a physician immediately.
Aggravated Medical Conditions:	No information available
Notes to physician:	No information available

5. FIRE-FIGHTING MEASURES

Flash point:	-156°F, -104°C
Flame extension test, inches (aerosol products only):	Not applicable or no information available.
Suitable extinguishing media:	Carbon dioxide (CO ₂). Dry chemical. Foam. Do not use a direct stream of water..
Unusual hazards:	Extremely flammable. The pressure in sealed containers can increase under the influence of heat.
Special protective equipment for firefighters:	As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.
Specific methods:	Standard procedure for chemical fires. Cool containers / tanks with spray water
Explosive properties:	No information available.

6. ACCIDENTAL RELEASE MEASURES

Method(s) for cleanup:	
Small spills:	Soak up with inert absorbent material and dispose of as hazardous waste. Take precautionary measures against static discharges.
Large spills:	Dam up. Take up mechanically and collect in a suitable properly labelled chemical waste container for disposal. Take precautionary measures against static discharges.

7. HANDLING AND STORAGE

Handling:	
Technical measures/precautions:	Ensure adequate ventilation. Keep away from open flames, hot surfaces and sources of ignition. Take precautionary measures against static discharges.

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7. HANDLING AND STORAGE

Safe handling advice:	Do not spray on a naked flame or any other incandescent material Handle in accordance with good industrial hygiene and safety practice. Normal measures of preventive fire protection. Do not re-use empty containers for other materials.
Storage:	
Technical measures/storage conditions:	Keep tightly closed in a dry, cool and well-ventilated place. Keep away from open flames, hot surfaces and sources of ignition. Store at temperatures not exceeding 110°F.
Incompatible products:	Strong oxidizing agents.
Other precautions:	The pressure in sealed containers can increase under the influence of heat.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Ingredient	CAS Registry Number	ACGIH TWA:	OSHA - TWA:	OSHA - Skin Notations	OSHA Z3 Mineral Dusts
Light aliphatic naphtha	-	-	-	-	-
Propane/isobutane/N-butane	68476-86-8	-	-	-	-
Release blend	Proprietary	-	-	-	-

Engineering measures to reduce exposure: Ensure adequate ventilation. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction.

Personal Protective Equipment

- Respiratory protection:** In case of insufficient ventilation wear suitable respiratory equipment.
- Hand protection:** Impervious gloves
- Eye protection:** Tightly-fitting safety goggles or safety glasses with side shields.
- Skin and body protection:** Lightweight protective clothing. Usual safety precautions while handling the product will provide adequate protection against this potential effect

9. PHYSICAL AND CHEMICAL PROPERTIES

Initial boiling point:	-43°F, -42°C
Specific gravity:	0.66
Bulk density (lb/gal):	5.46
Vapor pressure in mm Hg at 20 °C (68 °F):	Not determined.
Vapor density (air = 1):	Not determined.
Evaporation rate:	Not determined.

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9. PHYSICAL AND CHEMICAL PROPERTIES

Volatiles content (%):	90 - 100%
Solubility in water:	Insoluble
pH of concentrate:	Not determined.
Melting point/range:	Not applicable
Flash point:	-156°F, -104°C
Flammability limits in air:	Percent by volume

Ingredient	CAS Registry Number	Lower (%):	Upper (%):
Naphtha, petroleum, hydrotreated light (1HY005)	64742-49-0	1.0	6.7
Propane/isobutane/N-butane	68476-86-8	1.8	9.5

10. STABILITY AND REACTIVITY

Stability:	Stable
Conditions to avoid:	Keep away from open flames, hot surfaces and sources of ignition.
Materials to avoid:	Strong oxidising agents.
Hazardous decomposition products:	Carbon oxides. Formaldehyde and silicon dioxide may be evolved at elevated temperatures.
Polymerization:	Hazardous polymerisation does not occur

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11. TOXICOLOGICAL INFORMATION

Acute toxicity

Component Information:

Ingredient	CAS Registry Number	LD50 Oral	LD50 Dermal	LC50 Inhalation
Light aliphatic naphtha	-	5000 mg/kg (Rat)	3160 mg/kg (Rabbit)	73680 ppm (Rat) 4 h
Propane/isobutane/N-butane	68476-86-8	-	-	-
Release blend	Proprietary	-	-	-

Acute effects

Product contains proprietary ingredients. Health hazards are listed below.

Skin contact:

Prolonged contact may defat skin, causing irritation and/or dermatitis.

Eye contact:

May cause eye irritation

Inhalation:

High levels above the TLV cause stupor, headache, nausea, dizziness, unconsciousness, and may produce adverse effects on vision.

Ingestion:

Ingestion may cause gastrointestinal irritation, nausea, vomiting, and diarrhea. Material entering lungs during swallowing or vomiting causes lung inflammation and other lung injury.

Sensitization:

No information available.

Other effects:

No information available.

Chronic effects

Carcinogenic effects:

Ingredient	CAS Registry Number	NTP:	IARC:	OSHA:
Light aliphatic naphtha	-	No	No	No
Propane/isobutane/N-butane	68476-86-8	No	No	No
Release blend	Proprietary	No	No	No

Mutagenic effects:

No information available

Reproductive toxicity:

No information available

Target organ effects:

No information available.

12. ECOLOGICAL INFORMATION

Ecotoxicity: No data available

13. DISPOSAL CONSIDERATIONS

Method(s) of disposal: Dispose of in accordance with local, state, and federal regulations.

US EPA Waste code(s): D001 because of its ignitability if the product is disposed of in its original form.

14. TRANSPORTATION INFORMATION

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IMDG - Marine Pollutants This product does not contain marine pollutants as classified by the International Maritime Organization.

Emergency Response Guidebook 126 (ERG) No:

Mode of Transportation:	UN/NA ID No:	Proper shipping name:	Technical name:	Hazard Class:		Packing group:
DOT - Non-Bulk	-	Consumer commodity	-	ORM-D		-
DOT - Bulk	-	Consumer commodity	-	ORM-D		-
Canadian TDG	-	Consumer commodity	-	ORM-D		-
ICAO/IATA	UN1950	Aerosols, flammable	-	2.1		-
IMO/IMDG	UN1950	Aerosols	-	2.1		-

15. REGULATORY INFORMATION**U.S. Regulations**

OSHA Hazardous Chemical: Yes

Sara Title III**CERCLA/SARA (304) Hazardous Substances and RQs**

Ingredient	CAS Registry Number	Weight %	RQ
Light aliphatic naphtha	-	70 - 80%	-
Propane/isobutane/N-butane	68476-86-8	20 - 30%	-
Release blend	Proprietary	5 - 10%	-

SARA (302) Extremely Hazardous Substances and RQs

Ingredient	CAS Registry Number	Weight %	RQs
Light aliphatic naphtha	-	70 - 80%	-
Propane/isobutane/N-butane	68476-86-8	20 - 30%	-
Release blend	Proprietary	5 - 10%	-

SARA (311/312) Classification:

Acute health hazard: Yes
Chronic health hazard: No
Fire: Yes
Sudden release of pressure: Yes
Reactive: No

SARA (313) Toxic Chemicals

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15. REGULATORY INFORMATION

Ingredient	CAS Registry Number	Weight %	SARA (313) List
Light aliphatic naphtha	-	70 - 80%	Not Listed
Propane/isobutane/N-butane	68476-86-8	20 - 30%	Not Listed
Release blend	Proprietary	5 - 10%	Not Listed

International Inventories

Australia:	All the constituents of this material are listed on the Australian Inventory of Chemical Substances (AICS).
Canada:	This product complies with DSL
China:	This product complies with CLECS.
Europe:	This product complies with EINECS
Japan:	This product does not comply with ENCS/MITI.
Korea:	Listed on ECL.
New Zealand:	This product does not comply with NEWZ
Philippines:	This product complies with PICCS.
United States:	This product complies with TSCA.

16. OTHER INFORMATION

Hazardous Material Information System (USA):

Health: 1 Flammability: 4 Physical hazard: 0 Personal Protection code: H

National Fire Protection Association (USA):

Health: 1 Flammability: 4 Instability: 0 Special Hazards: None

All revisions are marked with one or more asterisks (*)

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